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PATENT ABSTRACTS OF JAPAN

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(43) Date of application publication: 08.03.96	(72) Inventor: KASAMI YUTAKA YASUDA KOICHI
(84) Designated contracting states:	(74) Representative:

(54) OPTICAL DISK

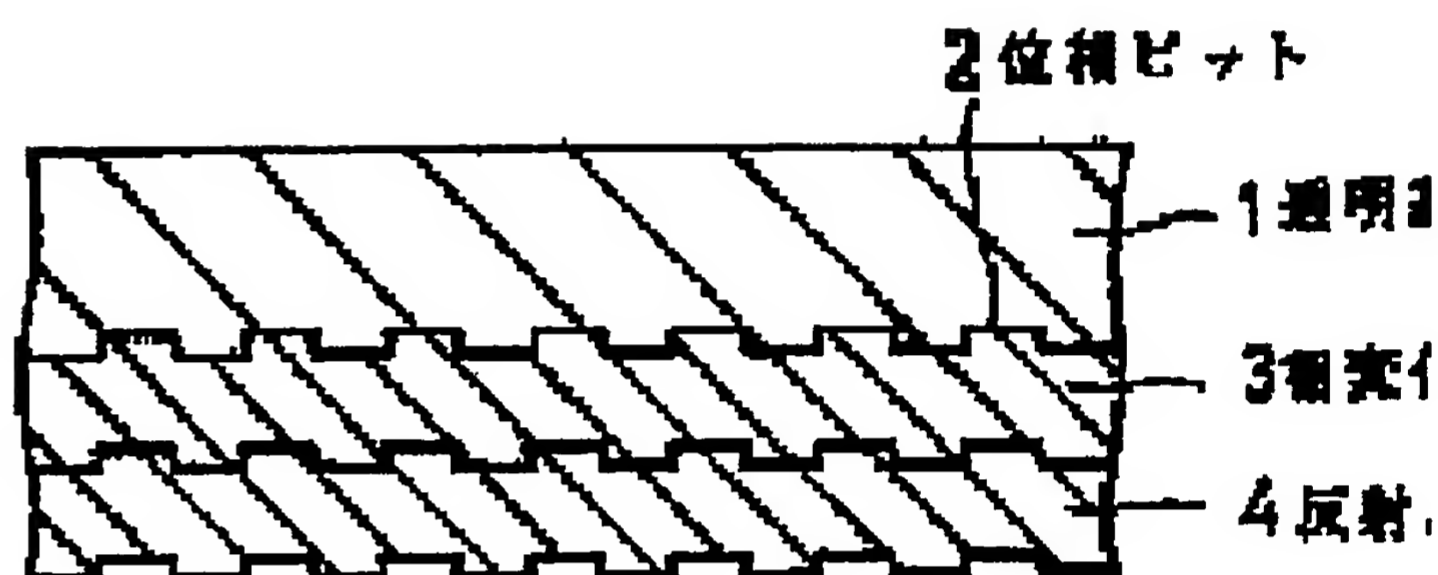
(57) Abstract:

PURPOSE: To obtain an ultrahigh resolution reproducing optical disk capable of simultaneously enhancing sensitivity and optical contrast.

CONSTITUTION: At least a phase change material layer 3 and a reflecting layer 4 are formed on a transparent substrate 1 with formed recording pits 2 capable of optical readout in accordance with an information signal to obtain the objective optical disk. At the time of irradiation with readout light, the phase change material layer 3 is partially converted into a liq. phase in a scanning spot of the readout light to vary its reflectance. The reflecting layer 4 is especially made of a

substance selected from among a metallic element, a metalloid element, a semiconductor element and their compds. or their mixture each having $\leq 0.2\text{J/cm.K.s}$ heat conductivity and an extinction coefft. (k) of ≥ 4 (complex index of refraction to the wavelength of readout light is $n-ik$) and the thickness of the layer 4 is especially regulated to $\leq 35\text{nm}$.

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